

Resolution No. R5-2005-XXXX
Attachment 1 (17 October 2005 Version)

Item 8. Amendments to the Water Quality Control Plan for the Sacramento River and San Joaquin River Basins for the Control of Diazinon and Chlorpyrifos Runoff into the San Joaquin River

Additions to the Basin Plan are shown as underlined text, and text removals are shown in ~~strikeout~~ below. Changes from the earlier version of Attachment 1 are shown in “double” ~~strikeout~~ (e.g. ~~the~~) and “double” underline (e.g. the)

Additions to Chapter I, Introduction

Under the Chapter I heading: “Basin Description” beginning on page I-1.00, make the following changes:

This Basin Plan covers the entire area included in the Sacramento and San Joaquin River drainage basins (see maps in pocket* and Figure II-1). The basins are bound by the crests of the Sierra Nevada on the east and the Coast Range and Klamath Mountains on the west. They extend some 400 miles from the California - Oregon border southward to the headwaters of the San Joaquin River.

*NOTE: The planning boundary between the San Joaquin River Basin and the Tulare Lake Basin follows ~~the northern boundary of Little Panoche Creek basin~~ the southern watershed boundaries of the Little Panoche Creek, Moreno Gulch, and Capita Canyon to boundary of the Westlands Water District. From here, the boundary follows the northern edge of the Westlands Water District until its intersection with the Firebaugh Canal Company’s Main Lift Canal. The basin boundary then follows the Main Lift Canal to the Mendota Pool and continues eastward along the channel of the San Joaquin River to Millerton Lake in the Sierra Nevada foothills, and then follows along the southern boundary of the San Joaquin River drainage basin.

After the Grassland watershed description, add

Lower San Joaquin River Watershed and Subareas

Technical descriptions of the Lower San Joaquin River (LSJR) and its component subareas are contained in Appendix 41. General descriptions follow: The LSJR watershed encompasses approximately 4,580 square miles in Merced County and portions of Fresno, Madera, San Joaquin, and Stanislaus counties. For planning purposes, the LSJR watershed is defined as the area draining to the San Joaquin River downstream of the Mendota Dam and upstream of the Airport Way Bridge near Vernalis.

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excluding the areas upstream of dams on the major Eastside reservoirs: New Don Pedro, New Melones, Lake McClure, and similar Eastside reservoirs in the LSJR system. The LSJR watershed excludes all lands within Calaveras, Tuolumne, San Benito, and Mariposa Counties. The LSJR watershed has been subdivided into seven major sub areas. In some cases major subareas have been further subdivided into minor subareas to facilitate more effective and focused water quality planning (Table I-1).

Table I-1 Lower San Joaquin River Subareas

<u>Major Subareas</u>		<u>Minor Subareas</u>	
1	<u>LSJR upstream of Salt Slough</u>	1a	<u>Bear Creek</u>
		1b	<u>Fresno-Chowchilla</u>
2	<u>Grassland</u>	-- --	
3	<u>East Valley Floor</u>	3a	<u>Northeast Bank</u>
		3b	<u>North Stanislaus</u>
		3c	<u>Stevinson</u>
		3d	<u>Turlock Area</u>
4	<u>Northwest Side</u>	4a	<u>Greater Orestimba</u>
		4b	<u>Westside Creeks</u>
		4c	<u>Vernalis North</u>
5	<u>Merced River</u>	-- --	
6	<u>Tuolumne River</u>	-- --	
7	<u>Stanislaus River</u>	-- --	

1. Lower San Joaquin River upstream of Salt Slough

This subarea drains approximately 1,480 square miles on the east side of the LSJR upstream of the Salt Slough confluence. The subarea includes the portions of the Bear Creek, Chowchilla River and Fresno River watersheds that are contained within Merced and Madera Counties. The northern boundary of the subarea generally abuts the Merced River Watershed. The western and southern boundaries follow the San Joaquin River from the Lander Avenue Bridge to Friant, except for the lands within the Columbia Canal Company, which are excluded. Columbia Canal Company lands are included in the Grassland Subarea. This subarea is composed of the following drainage areas:

1a. Bear Creek (effective drainage area)

This minor subarea is a 620 square mile subset of lands within the LSJR upstream of Salt Slough Subarea. The Bear Creek Minor Subarea is predominantly comprised of the portion of the Bear Creek Watershed that is contained within Merced County.

1b. Fresno-Chowchilla

The Fresno-Chowchilla Minor Subarea is comprised of approximately 860 square miles of land within the southern portion of the LSJR upstream of Salt Slough Subarea. This minor subarea is located in southeastern Merced County and western

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Madera County and contains the land area that drains into the LSJR between Sack Dam and the Bear Creek confluence, including the drainages of the Fresno and Chowchilla Rivers.

2. Grassland

The Grassland Subarea drains approximately 1,370 square miles on the west side of the LSJR in portions of Merced, Stanislaus, and Fresno Counties. This subarea includes the Mud Slough, Salt Slough, and Los Banos Creek watersheds. The eastern boundary of this subarea is generally formed by the LSJR between the Merced River confluence and the Mendota Dam. The Grassland Subarea extends across the LSJR, into the east side of the San Joaquin Valley, to include the lands within the Columbia Canal Company. The western boundary of the subarea generally follows the crest of the Coast Range with the exception of lands within San Benito County, which are excluded.

3. East Valley Floor

This subarea includes approximately 413 square miles of land on the east side of the LSJR that drains directly to the LSJR between the Airport Way Bridge near Vernalis and the Salt Slough confluence. The subarea is largely comprised of the land between the major east-side drainages of the Tuolumne, Stanislaus, and Merced Rivers. This subarea lies within central Stanislaus County and north-central Merced County. Numerous drainage canals, including the Harding Drain and natural drainages, drain this subarea. The subarea is comprised of the following minor subareas:

3a. Northeast Bank

This minor subarea of the East Valley Floor contains all of the land draining the east side of the San Joaquin River between the Maze Boulevard Bridge and the Crows Landing Road Bridge, except for the Tuolumne River subarea. The Northeast Bank covers approximately 123 square miles in central Stanislaus County.

3b. North Stanislaus

The North Stanislaus minor subarea is a subset of lands within the East Valley Floor Subarea. This minor subarea drains approximately 68 square miles of land between the Stanislaus and Tuolumne River watersheds that flows into the San Joaquin River between the Airport Way Bridge near Vernalis and the Maze Boulevard Bridge.

3c. Stevinson

This minor subarea of the East Valley Floor contains all of the land draining to the LSJR between the Merced River confluence and the Lander Avenue (Highway 165) Bridge. The Stevinson Minor Subarea occupies approximately 44 square miles in north-central Merced County.

3d. Turlock Area

This minor subarea of the East Valley Floor contains all of the land draining to the LSJR between the Crows Landing Road Bridge and the Merced River confluence. The Turlock Area Minor Subarea occupies approximately 178 square miles in south-central Stanislaus County and northern Merced County.

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4. Northwest Side

This 574 square mile area generally includes the lands on the West side of the LSJR between the Airport Way Bridge near Vernalis and the Newman Waste way confluence. This subarea includes the entire drainage area of Orestimba, Del Puerto, and Hospital/Ingram Creeks. The subarea is primarily located in Western Stanislaus County except for a small area that extends into Merced County near the town of Newman and the Central California Irrigation District Main Canal.

4a. Greater Orestimba

The Greater Orestimba Minor Subarea is a 285 square mile subset of the Northwest Side Subarea located in southwest Stanislaus County and a small portion of western Merced County. It contains the entire Orestimba Creek watershed and the remaining area that drains into the LSJR from the west between the Crows Landing Road Bridge and the confluence of the Merced River, including Little Salad and Crow Creeks.

4b. Westside Creeks

This Minor Subarea is comprised of 277 square miles of the Northwest Side Subarea in western Stanislaus County. It consists of the areas that drain into the west side of the San Joaquin River between Maze Boulevard and Crows Landing Road, including the drainages of Del Puerto, Hospital, and Ingram Creeks.

4c. Vernalis North

The Vernalis North Minor Subarea is a 12 square mile subset of land within the most northern portion of the Northwest Side Subarea. It contains the land draining to the San Joaquin River from the west between the Maze Boulevard Bridge and the Airport Way Bridge near Vernalis.

5. Merced River

This 294 square mile subarea is comprised of the Merced River watershed downstream of the Merced-Mariposa county line and upstream of the River Road Bridge. The Merced River subarea includes a 13-square-mile “island” of land (located between the East Valley Floor and the Tuolumne River Subareas) that is hydrologically connected to the Merced River by the Highline Canal.

6. Tuolumne River

This 294 square mile subarea is comprised of the Tuolumne River watershed downstream of the Stanislaus-Tuolumne county line, including the drainage of Turlock Lake, and upstream of the Shiloh Road Bridge.

7. Stanislaus River

This 157 square mile subarea is comprised of the Stanislaus River watershed downstream of the Stanislaus-Calaveras county line and upstream of Caswell State Park.

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Additions to Chapter III, Water Quality Objectives

In the “Pesticides” section add:

PESTICIDE	TABLE III-2A SPECIFIC PESTICIDE OBJECTIVES	
	MAXIMUM CONCENTRATION AND AVERAGING PERIOD	APPLICABLE WATER BODIES
Chlorpyrifos	<u>0.025 μ g/L ; 1-hour average (acute)</u> <u>0.015 μ g/L ; 4-day average (chronic)</u> <u>Not to be exceeded more than once in a three year period.</u>	<u>San Joaquin River from Mendota Dam to Vernalis (Reaches include Mendota Dam to Sack Dam (70), Sack Dam to Mouth of Merced River (71), Mouth of Merced River to Vernalis (83))</u>

Additions to Chapter IV, Implementation

Insert to Chapter IV Implementation after 7. Diazinon Discharges into the Sacramento and Feather Rivers

8. Control of Diazinon and Chlorpyrifos Runoff into the San Joaquin River

Beginning December 1, 2010~~08~~, the direct or indirect discharge of diazinon or chlorpyrifos into the San Joaquin River is prohibited during the dormant season (1 December through 1 March) if any exceedance of the chlorpyrifos or diazinon water quality objectives, or diazinon and chlorpyrifos loading capacity, or diazinon and chlorpyrifos load allocations occurred during the previous dormant season. The prohibition applies only to direct or indirect discharges of diazinon or chlorpyrifos to surface water bodies that are tributary to or upstream from the location where the water quality objective, loading capacity, or load allocations were exceeded.

Beginning March 2, 2011~~09~~, the direct or indirect discharge of diazinon or chlorpyrifos into the San Joaquin River is prohibited during the irrigation season (2 March through 30 November) if any exceedance of the chlorpyrifos or diazinon water quality objectives, or diazinon and chlorpyrifos loading capacity, or diazinon and chlorpyrifos load allocations occurred during the previous irrigation season.

These prohibitions apply ~~ies~~ only to i) dischargers who discharge the pollutant causing or contributing to the exceedance of the water quality objective or loading capacity; and ii) dischargers located in those subareas not meeting their load allocations. ~~direct or indirect discharges of diazinon or chlorpyrifos to surface water bodies that are tributary to or~~

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~~upstream from the location where the water quality objective, loading capacity, or load allocations were exceeded.~~

These prohibitions do not apply if the discharge of diazinon or chlorpyrifos is subject to a waiver of waste discharge requirements implementing the chlorpyrifos and diazinon water quality objectives and load allocations for diazinon and chlorpyrifos for the San Joaquin River, or governed by individual or general waste discharge requirements.

Insert to Chapter IV Implementation page 36.01

Diazinon and Chlorpyrifos Runoff in the San Joaquin River Basin

1. The pesticide runoff control program shall:
 - a. Ensure compliance with water quality objectives applicable to diazinon and chlorpyrifos in the San Joaquin River through the implementation of ~~necessary~~ management practices.
 - b. Ensure that measures that are implemented to reduce discharges of diazinon and chlorpyrifos do not lead to an increase in the discharge of other pesticides to levels that cause or contribute to violations of applicable water quality objectives and Regional Water Board plans and policies; and
 - c. Ensure that discharges of pesticides to surface waters are controlled so that pesticide concentrations are at the lowest levels that are technically and economically achievable.
2. Dischargers must consider whether any proposed alternative to the use of diazinon or chlorpyrifos has the potential to degrade ground or surface water. If the alternative has the potential to degrade groundwater, alternative pest control methods must be considered. If the alternative has the potential to degrade surface water, control measures must be implemented to ensure that applicable water quality objectives and Regional Water Board plans and policies are not violated, including State Water Resources Control Board Resolution 68-16.
3. Compliance with applicable water quality objectives, load allocations, and waste load allocations for diazinon and chlorpyrifos in the San Joaquin River is required by December 1, ~~2010~~.

The water quality objectives and allocations will be implemented through one or a combination of the following: the adoption of one or more waivers of waste discharge requirements, and general or individual waste discharge requirements. To the extent not already in place, the Regional Water Board expects to adopt or revise the appropriate waiver(s) or waste discharge requirements by December 31, 2007.

4. The Regional Water Board intends to review the diazinon and chlorpyrifos allocations and the implementation provisions in the Basin Plan at least once every five years, beginning no later than December 31, ~~2009~~.

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5. Regional Water Board staff will meet at least annually with staff from the Department of Pesticide Regulation and representatives from the California Agricultural Commissioners and Sealers Association to review pesticide use and instream pesticide concentrations during the dormant spray and irrigation application seasons, and to consider the effectiveness of management measures in meeting water quality objectives and load allocations.
6. The Waste Load Allocations (WLA) for all NPDES-permitted dischargers, Load Allocations (LA) for nonpoint source discharges, and the Loading Capacity of the San Joaquin River from the Mendota Dam to Vernalis shall not exceed the sum (S) of one (1) ~~one toxic unit (TU) of diazinon and chlorpyrifos~~ as defined below.

$$S = \frac{C_D}{WQO_D} + \frac{C_C}{WQO_C} \leq 1.0$$

where

C_D = diazinon concentration in $\mu\text{g/L}$ of point source discharge for the WLA; nonpoint source discharge for the LA; or San Joaquin River for the LC.

C_C = chlorpyrifos concentration in $\mu\text{g/L}$ of point source discharge for the WLA; nonpoint source discharge for the LA; or San Joaquin River for the LC.

WQO_D = acute or chronic ~~diazinon water quality target or diazinon water quality objective~~ in $\mu\text{g/L}$. ~~The acute WQO_D is 0.160 $\mu\text{g/L}$ as an 1-hour average and the chronic WQO_D is 0.100 $\mu\text{g/L}$ as a four day average not to be exceeded more than once in a three year period.~~

WQO_C = acute or chronic chlorpyrifos water quality objective in $\mu\text{g/L}$.

The water quality targets for diazinon represent the best available information for interpretation of compliance with the Regional Water Board's narrative toxicity and pesticide water quality objectives. The diazinon water quality targets will be used to evaluate progress towards attainment of the narrative water quality objectives. The Regional Water Board intends to adopt diazinon water quality objectives for the San Joaquin River prior to the compliance dates for the loading capacity and allocations. In absence of diazinon water quality objectives, interpretation of compliance with applicable narrative water quality objectives will be based on the best available information at the time compliance is evaluated and in accordance with Basin Plan policies for evaluating compliance with the applicable narrative water quality objectives.

Available samples collected within the applicable averaging period for the water quality objective will be used to determine compliance with the allocations and loading capacity. For purposes of ~~performing the toxic unit calculation~~ calculating the sum (S) above, analytical results that are reported as "non-detectable" concentrations are considered to be zero.

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7. At a minimum, Loading Capacity shall be calculated for each of the following six water quality compliance points in the San Joaquin River:
- San Joaquin River at the Airport Way Bridge near Vernalis (United States Geological Survey (USGS) Identification Number 11303500)
 - San Joaquin River at the Maze Boulevard (Highway 132) Bridge (USGS Identification Number 11290500)
 - San Joaquin River at Las Palmas Avenue near Patterson (USGS Identification Number 11274570)
 - San Joaquin River at Hills Ferry Road
 - San Joaquin River at Highway 165 near Stevinson (USGS Identification Number 11260815)
 - San Joaquin River at Sack Dam

The load allocations for non-point source discharges into the San Joaquin River are assigned to the following subareas:

- a. The combined Stanislaus River; North Stanislaus; and Vernalis North subareas.
- b. The combined Tuolumne River; Northeast Bank; and Westside Creek subareas.
- c. The combined Turlock; Merced; and Greater Orestimba subareas.
- d. The combined Stevinson and Grassland subareas.
- e. The combined Bear Creek and Fresno-Chowchilla subareas.

The established waste load and load allocations for diazinon and chlorpyrifos, and the water quality objectives for chlorpyrifos and diazinon in the San Joaquin River represent a maximum allowable level. The Regional Water Board shall require any additional reductions in diazinon and chlorpyrifos levels necessary to account for additional additive or synergistic toxicity effects or to protect beneficial uses in tributary waters.

8. Pursuant to CWC Section 13267, the Executive Officer will require dischargers to submit a management plan that describes the actions that the discharger will take to reduce diazinon and chlorpyrifos discharges and meet the applicable allocations by the required compliance date.

The management plan may include actions required by State and federal pesticide regulations. The Executive Officer will require the discharger to document the relationship between the actions to be taken and the expected reductions in diazinon and chlorpyrifos discharges. The Executive Officer will allow individual dischargers or a discharger group or coalition to submit management plans.

The management plan must comply with the provisions of any applicable waiver of waste discharge requirements or waste discharge requirements.

The Executive Officer may require revisions to the management plan if compliance with applicable allocations is not attained or the management plan is not reasonably likely to attain compliance.

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9. If the loading capacity in the San Joaquin River is not being met by the compliance date, dischargers in subareas where load allocations are not being met will be required to revise their management plans and implement ~~additional~~ an improved complement of management measures to meet the loading capacity.
10. Any waiver of waste discharge requirements or waste discharge requirements that govern the control of pesticide runoff that is discharged directly or indirectly into the San Joaquin River must be consistent with the policies and actions described in paragraphs 1 – 9.
11. In determining compliance with the waste load allocations, the Regional Water Board will consider any data or information submitted by the discharger regarding diazinon and chlorpyrifos inputs from sources outside of the jurisdiction of the permitted discharger, including any diazinon and chlorpyrifos present in precipitation, and other available relevant information; and any applicable provisions in the discharger's NPDES permit requiring the discharger to reduce the discharge of pollutants to the maximum extent possible.

Add to “Estimated Costs of Agricultural Water Quality Control Programs and potential Sources of Financing” section-

The total estimated costs for management practices to meet the diazinon and chlorpyrifos objectives for the San Joaquin River range from \$27,000 to \$12 million for the dormant season, and from \$4 million to \$5 million for the irrigation season. The estimated costs for discharger compliance monitoring, planning and evaluation range from \$600,000 to \$3.1 million. The estimated total annual costs range from \$4.6 million to \$20 million (2004 dollars).

Potential funding sources include:

1. Those identified in the San Joaquin River Subsurface Agricultural Drainage Control Program and the Pesticide Control Program.

Additions to Chapter V, Surveillance and Monitoring

Add:

The Regional Water Board requires a focused monitoring effort of pesticide runoff from orchards and fields in the San Joaquin Valley.

The monitoring and reporting program for any waste discharge requirements or waiver of waste discharge requirements that addresses pesticide runoff from orchards and fields in the San Joaquin valley must be designed to collect the information necessary to:

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1. determine compliance with established water quality objectives and the loading capacity applicable to diazinon and chlorpyrifos in the San Joaquin River;
2. determine compliance with established load allocations for diazinon and chlorpyrifos;
3. determine the degree of implementation of management practices to reduce off-site movement of diazinon and chlorpyrifos;
4. determine the effectiveness of management practices and strategies to reduce off-site migration of diazinon and chlorpyrifos;
5. determine whether alternatives to diazinon and chlorpyrifos are causing surface water quality impacts;
6. determine whether the discharge causes or contributes to a toxicity impairment due to additive or synergistic effects of multiple pollutants; and
7. demonstrate that management practices are achieving the lowest pesticide levels technically and economically achievable.

Dischargers are responsible for providing the necessary information. The information may come from the dischargers' monitoring efforts; monitoring programs conducted by State or federal agencies or collaborative watershed efforts; or from special studies that evaluate the effectiveness of management practices.

In Appendix: add a new Appendix 41 titled "San Joaquin Area Subarea Descriptions". The proposed language follows below:

Appendix 41 San Joaquin Area Subarea Descriptions

The Lower San Joaquin River watershed has been divided into seven major geographic subareas. In some cases, the major subareas have been further subdivided into minor subareas to provide a greater level of detail. The following is a technical description of each of the subareas comprising the LSJR Basin.

East Valley Floor Subarea

BEGINNING at the junction of the Stanislaus River and the San Joaquin River lying in Section 19, Township 3 South, Range 7 East, Mount Diablo Meridian; thence along the following courses:

1. Meander the centerline of the Stanislaus River northeasterly upstream to its intersection with boundary of Calwater RBUASPW area 6535100000 (Manteca Hydrologic Area) near Caswell Memorial State Park;
2. North on the said boundary of Calwater RBUASPW area 6535100000 (Manteca Hydrologic Area) near Caswell Memorial State Park to its intersection with the centerline of a road located slightly more than one half mile north of the river;
3. East on centerline of said road to its junction with the centerline of the north levee of the Stanislaus River;
4. Southwesterly on centerline of said Stanislaus River levee to its intersection with the centerline of the park road connecting to the campsites, were said road extended to intersect the levee;
5. Easterly on said road to the point of intersection with a line perpendicular from the bank of the Stanislaus River directly opposite of Campsite number 24;
6. North-Northeasterly on said perpendicular line to its intersection with the centerline of the Stanislaus River;

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7. East to the intersection with the crest of the ridge parallel to the opposite side of the river bend from the Caswell Memorial State Park;
8. Southeast on said ridge to its intersection with the centerline of the south bank levee of the Stanislaus River;
9. Meander centerline of said levee northeasterly to its intersection with the centerline of Modesto Irrigation District Lateral Number 6;
10. Meander centerline of said Lateral No. 6 easterly to its junction with the centerline of Modesto Main Canal;
11. Meander centerline of said Main Canal southeasterly to its junction with the centerline of Thompson Lateral;
12. Meander centerline of said Thompson Lateral northerly to its junction with the centerline of Stowell Lateral;
13. Meander centerline of said Stowell Lateral northeasterly to its junction with the centerline of Claribel Lateral;
14. Meander centerline of said Claribel Lateral southerly to its junction with the centerline of Dry Creek;
15. Meander centerline of Dry Creek westerly to its intersection with the centerline of Modesto Main Canal;
16. Meander centerline of said Main Canal northwesterly to its junction with Modesto Irrigation District Lateral Number 3;
17. Meander centerline of said Lateral No. 3 westerly to its junction with Modesto Irrigation District Lateral Number 4;
18. Meander centerline of said Lateral No. 4 southwest to its intersection with the boundary of the McHenry Avenue Stormdrain Basin, as defined by the City of Modesto, in Modesto;
19. Meander the boundary of the said McHenry Avenue Stormdrain Basin to its intersection with the boundary of the Ninth Street Stormdrain Basin, as defined by the City of Modesto, in Modesto;
20. Meander boundary of the said Ninth Street Stormdrain Basin to its intersection with the centerline of Franklin Street;
21. South on the centerline of Franklin Street to the intersection with the centerline of Locust Street;
22. West on the centerline of Locust Street to its intersection with the centerline of Modesto Irrigation District Lateral Number 5, were it extended west to intersect the centerline of said Lateral No. 5;
23. Meander centerline of said Lateral No. 5 southwesterly to its intersection with the centerline of Hart Road;
24. South on the centerline of said road to its junction with the centerline of Paradise Road;
25. West on the centerline of Paradise Road to its junction with the centerline of Shiloh Road;
26. Southerly 1.5 miles on the centerline of said Shiloh Road to the location where it bends to the due west;
27. Meander the drainage boundary of the Tuolumne River southeasterly to its intersection with the centerline of Turlock Irrigation District Lower Lateral Number 2;
28. Meander centerline of said Lateral No. 2 westerly to its junction with the centerline of Turlock Irrigation District Lateral Number 1;
29. Meander centerline of said Lateral No. 1 to its junction with the centerline of Ceres Main Canal;
30. Meander centerline of said Ceres Main Canal easterly to its junction with the centerline of Turlock Main Canal;
31. Meander centerline of said Turlock Main Canal easterly to its junction with the centerline of Highline Canal;
32. Meander centerline of said Highline Canal southerly to its intersection with the drainage boundary of Sand Creek approximately 2000 feet upstream of the intersection with Keyes Road in Stanislaus County;
33. Meander drainage boundary of Sand Creek such that it is included in the East Valley Floor back to its intersection with the centerline of Highline Canal approximately one half mile southeast of the intersection of Hickman Road and Monte Vista Avenue in Stanislaus County;
34. Meander centerline of said Highline Canal southwest to its intersection with the drainage divide between Turlock Irrigation District Cross Ditch Number 1 and Turlock

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Irrigation District Cross Ditch Number 2 approximately 0.33 miles southwest of the intersection of Santa Fe Drive with the Merced County line;

35. Meander said drainage divide southwesterly to its intersection with the centerline of Turlock Irrigation District Lateral Number 6 at the junction of the centerlines of Turlock Main Canal, Turlock Irrigation District Lateral Number 5 (Harding Drain), and said Lateral No. 6;

36. Meander centerline of said Lateral No. 6 southwesterly to its junction with the centerline of Turlock Irrigation District Lateral Number 7;

37. Meander centerline of said Lateral No. 7 southwesterly to its junction with the centerline of Stevinson Lower Lateral;

38. Meander centerline of said Stevinson Lower Lateral southwesterly to its intersection with the centerline of an unnamed aqueduct approximately one quarter of one mile west of the intersection of Tegner Road and Taylor Avenue in Merced County;

39. Westerly on the centerline of said aqueduct to its junction with the centerline of the Merced River at its apparent point of discharge;

40. Meander centerline of the Merced River to its junction with the centerline of an unnamed canal pumped from the river less than one fifth of a mile downstream of the discharge point of the unnamed aqueduct;

41. Northwest on centerline of said unnamed canal to its intersection with the centerline of an unnamed unpaved road parallel to the Merced River, which begins nearly at the pump on the river;

42. Meander the centerline of said road westerly to its junction with the centerline of Kelley Road;

43. South on the centerline of Kelley Road to its intersection with the centerline of River Road;

44. Southeast on centerline of said River Road to its intersection with the centerline of the East Side Canal;

45. Meander centerline of said East Side Canal northeasterly to its intersection with a line due east coincident with the ninety degree bend in River Road in Section 4, Township 7 South, Range 14 East, Mount Diablo Meridian;

46. East on said line to its intersection with the centerline of River Road in Merced County;

47. Northeasterly on centerline of said River Road to its intersection with the West Side Boulevard, were said road extended to intersect River Road;

48. East on centerline of said West Side Boulevard to its junction with the centerline of Weir Road in Merced County;

49. Northeast to the junction of the centerlines of Magnolia Avenue and Howard Avenue in Merced County;

50. East on centerline of said Magnolia Avenue to its intersection with the southern drainage boundary of the Garibaldi Lateral;

51. Meander said southern boundary of Garibaldi Lateral to its intersection with the centerline of Hammatt Lateral at its junction with the centerline of Arena Canal near Livingston;

52. South on said drainage boundary of Bear Creek to its intersection with the centerline of the East Side Irrigation Canal, also known as the East Side Bypass Project, near said canal's junction with Howard Lateral;

53. Southwesterly on the drainage boundary of the San Joaquin River upstream of its intersection with Lander Avenue (Highway 165) to its intersection with the centerline of the San Joaquin River at its intersection with the centerline of Lander Avenue (Highway 165);

54. Meander centerline of said San Joaquin River northwesterly to its junction with the centerline of the Stanislaus River and the point of beginning of this description.

North Stanislaus Minor Subarea

BEGINNING at the junction of the Stanislaus River and the San Joaquin River lying in Section 19, Township 3 South, Range 7 East, Mount Diablo Meridian; thence along the following courses:

1. Meander the centerline of the Stanislaus River northeasterly upstream to its intersection with boundary of Calwater RBUASPW area 6535100000 (Manteca Hydrologic Area) near Caswell Memorial State Park;
2. North on the said boundary of Calwater RBUASPW area 6535100000 (Manteca Hydrologic Area) near Caswell Memorial State Park to its intersection with the

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- centerline of a road located slightly more than one half mile north of the river;
3. East on centerline of said road to its junction with the centerline of the north levee of the Stanislaus River;
 4. Southwesterly on centerline of said Stanislaus River levee to its intersection with the centerline of the park road connecting to the campsites, were said road extended to intersect the levee;
 5. Easterly on said road to the point of intersection with a line perpendicular from the bank of the Stanislaus River directly opposite of Campsite number 24;
 6. North-Northeasterly on said perpendicular line to its intersection with the centerline of the Stanislaus River;
 7. East to the intersection with the crest of the ridge parallel to the opposite side of the river bend from the Caswell Memorial State Park;
 8. Southeast on said ridge to its intersection with the centerline of the south bank levee of the Stanislaus River;
 9. Meander centerline of said levee northeasterly to its intersection with the centerline of Modesto Irrigation District Lateral Number 6;
 10. Meander centerline of said Main Canal southeasterly to its junction with the centerline of Thompson Lateral;
 11. Meander centerline of said Thompson Lateral northerly to its junction with the centerline of Stowell Lateral;
 12. Meander centerline of said Stowell Lateral northeasterly to its junction with the centerline of Claribel Lateral;
 13. Meander centerline of said Claribel Lateral southerly to its junction with the centerline of Dry Creek;
 14. Meander centerline of Dry Creek westerly to its intersection with the centerline of Modesto Main Canal;
 15. Meander centerline of said Main Canal northwesterly to its junction with Modesto Irrigation District Lateral Number 3;
 16. Meander centerline of said Lateral No. 3 westerly to its junction with Modesto Irrigation District Lateral Number 4;
 17. Meander centerline of said Lateral No. 4 southwest to its intersection with the boundary of the McHenry Avenue Stormdrain Basin, as defined by the City of Modesto, in Modesto;
 18. North, west, and south on the boundary of the said McHenry Avenue Stormdrain Basin to its intersection with the boundary of the Ninth Street Stormdrain Basin, as defined by the City of Modesto, in Modesto;
 19. West and south on the boundary of the said Ninth Street Stormdrain Basin to its intersection with the centerline Highway 99;
 20. Northwest on centerline of said Highway 99 to its intersection with the centerline of Woodland Avenue/Coldwell Avenue;
 21. West on centerline on said centerline of Woodland Avenue to its intersection with the western boundary intersection of Sections 21 and 28, Township 3 South, Range 8 East, Mount Diablo Meridian;
 22. North on boundary of Section 21, Township 3 South, Range 8 East, Mount Diablo Meridian to its intersection with the centerline of Modesto Irrigation District Lateral Number 3;
 23. West on centerline of said Lateral No. 3 to its junction with the centerline of an unnamed lateral approximately one half mile downstream of the intersection with the section boundary;
 24. Meander centerline of said unnamed canal southwesterly to its junction with the centerline of the north levee of Modesto Irrigation District Lateral Number 4 if it were extended to cross said unnamed canal;
 25. Meander centerline of said levee of Lateral No. 4 westerly to its junction with the centerline of the eastern levee of Finnegan Cut on San Joaquin River;
 26. Meander centerline of said levee of Finnegan Cut on the San Joaquin River to its intersection with the centerline of Maze Boulevard in Stanislaus County;

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27. Westerly on centerline of said Maze Boulevard to its intersection with the centerline of the San Joaquin River;
28. Meander centerline of said San Joaquin River northerly to its intersection with the centerline of the Stanislaus River and the point of beginning of this description.

Northeast Bank Minor Subarea

BEGINNING at the centerline of the San Joaquin River at the Maze Boulevard Bridge lying in Section 29, Township 3 South, Range 7 East, Mount Diablo Meridian;
thence along the following courses:

1. Easterly on centerline of said Maze Boulevard to its intersection with the centerline of the east bank levee of the San Joaquin River;
2. Meander centerline of said levee of the San Joaquin River southeasterly to its intersection with the north bank levee of Modesto Irrigation District Lateral Number 4;
3. Meander centerline of said levee of Lateral No. 4 easterly to its intersection with the centerline of an unnamed lateral connecting Lateral No. 3 and Lateral No. 4, were it extended east to said centerline;
4. Meander centerline of said unnamed lateral to its junction with the centerline of Modesto Irrigation District Lateral Number 3;
5. East on centerline of said Lateral No. 3 to its intersection with the western boundary of Section 21, Township 3 South, Range 8 East, Mount Diablo Meridian;
6. South on boundary of said Section 21 to its intersection with the centerline of Woodland Avenue;
7. East on the centerline of said Woodland Avenue to its intersection with the centerline of Highway 99;
8. Southeast on the centerline of said Highway 99 to its intersection with the centerline of Franklin Street;
9. South on the centerline of Franklin Street to the intersection with the centerline of the centerline of Locust Street;
10. West on the centerline of Locust Street to its intersection with the centerline of Modesto Irrigation District Lateral Number 5, were it extended west to intersect said Lateral No. 5;
11. Meander centerline of said Lateral No. 5 southwesterly to its intersection with the centerline of Hart Road;
12. South on the centerline of said road to its junction with the centerline of Paradise Road;
13. West on the centerline of Paradise Road to its junction with the centerline of Shiloh Road;
14. South 1.5 miles on the centerline of said Shiloh Road to the location where it bends to the due west;
15. Meander the drainage boundary of the Tuolumne River southeasterly to its intersection with the centerline of Turlock Irrigation District Lower Lateral Number 2;
16. Meander centerline of said Lateral No. 2 westerly to its junction with the centerline of Turlock Irrigation District Lateral Number 1;
17. Meander centerline of said Lateral No. 1 to its junction with the centerline of Ceres Main Canal;
18. Meander centerline of said Ceres Main Canal easterly to its junction with the centerline of Turlock Main Canal;
19. Meander centerline of said Turlock Main Canal southerly to its junction with the centerline of Turlock Irrigation District Upper Lateral Number 3;
20. Meander centerline of said Lateral No. 3 westerly to its junction with the centerline of Turlock Irrigation District Lower Lateral Number 3;
21. West on centerline of said Lateral No. 3 to its intersection with the centerline of an unnamed lateral located approximately 3000 feet downstream of the Lateral No. 3 intersection with the centerline of Carpenter Road in Stanislaus County;
22. South on centerline of said unnamed lateral to its intersection with the centerline of Monte Vista Avenue in Stanislaus County;
23. Southwesterly on the drainage boundary separating the San Joaquin River from the unnamed drain and associated natural channel to its junction with the centerline of the east bank levee of the San Joaquin River;
24. Northwesterly on centerline of said levee of the San Joaquin River to its intersection with the drainage of the San Joaquin River upstream of West Main Street approximately 700 feet southeast of the intersection of the centerline of the east bank levee of the San Joaquin River and the centerline of West Main Street;

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25. Northwesterly on drainage boundary of the San Joaquin River upstream of Las Palmas Avenue in Stanislaus County to its intersection with the centerline of the San Joaquin River at its intersection with the centerline of Las Palmas Avenue;
26. Northwesterly on the centerline of said San Joaquin River to its intersection with the centerline of Maze Boulevard and the point of beginning of this description.

Stevinson Minor Subarea

BEGINNING at the centerline of the San Joaquin River at its junction with the centerline of the Merced River lying in Section 03, Township 07 South, Range 09 East, Mount Diablo Meridian; thence along the following courses:

1. East on centerline of Hills Ferry Road to its intersection with the centerline of River Road in Merced County;
2. Southeast on centerline of said River Road to its intersection with the centerline of the East Side Canal;
3. Meander centerline of said East Side Canal northeasterly to its intersection with a line due east coincident with the ninety degree bend in River Road in Section 4, Township 7 South, Range 14 East, Mount Diablo Meridian;
4. East on said line to its intersection with the centerline of River Road in Merced County;
5. Northeasterly on centerline of said River Road to its intersection with the West Side Boulevard, were said road extended to intersect River Road;
6. East on centerline of said West Side Boulevard to its junction with the centerline of Weir Road in Merced County;
7. Northeast to the junction of the centerlines of Magnolia Avenue and Howard Avenue in Merced County;
8. East on centerline of said Magnolia Avenue to its intersection with the southern drainage boundary of the Garibaldi Lateral;
9. Meander said southern boundary of Garibaldi Lateral to its intersection with the centerline of Hammatt Lateral at its junction with the centerline of Arena Canal near Livingston;
10. South on said drainage boundary of Bear Creek to its intersection with the centerline of the East Side Irrigation Canal, also known as the East Side Bypass Project, near said canal's junction with Howard Lateral;
11. Southwesterly on the drainage boundary of the San Joaquin River upstream of its intersection with Lander Avenue (Highway 165) to its intersection with the centerline of the San Joaquin River at its intersection with the centerline of Lander Avenue (Highway 165);
12. Northwesterly on centerline of said San Joaquin River to its junction with the centerline of the Merced River and the point of beginning of this description.

Turlock Area Minor Subarea

BEGINNING at the centerline of the San Joaquin River at the intersection with the centerline of the Las Palmas Avenue Bridge lying in Section 15, Township 05 South, Range 08 East, Mount Diablo Meridian; thence along the following courses:

1. Southeasterly on the drainage boundary of the San Joaquin River upstream of West Main Street in Stanislaus County to its intersection with the centerline of the east bank levee of the San Joaquin River approximately 700 feet southeast of the intersection of the centerline of said levee and the centerline of West Main Street;
2. Southeasterly on centerline of said levee of the San Joaquin River to its intersection with the drainage boundary approximately 3500 feet south of the intersection of the centerline of Jennings Road and the centerline of West Main Street in Stanislaus County separating the San Joaquin River from an unnamed lateral and associated natural channel downstream of its intersection with the centerline with Monte Vista Avenue in Stanislaus County;
3. Northwesterly on said drainage boundary to its intersection with the centerline of Monte Vista Avenue at its intersection with the centerline of the unnamed lateral;
4. North on centerline of said unnamed lateral to its junction with the centerline of Turlock Irrigation District Lower Lateral Number 3 approximately 3000 feet downstream of said Lateral No. 3 intersection with the centerline of Carpenter Road in Stanislaus County;

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5. Meander centerline of said Lateral No.3 east to its junction with the centerline of Turlock Irrigation District Upper Lateral Number 3;
6. Meander centerline of said Lateral No. 3 east to its junction with the centerline of Turlock Main Canal;
7. Meander centerline of said Turlock Main Canal north to its junction with the centerline of Highline Canal;
8. Meander centerline of said Highline Canal southerly to its intersection with the drainage boundary of Sand Creek approximately 2000 feet upstream of the intersection with Keyes Road in Stanislaus County;
9. Meander drainage boundary of Sand Creek such that it is included in the East Valley Floor back to its intersection with the centerline of Highline Canal approximately one half mile southeast of the intersection of Hickman Road and Monte Vista Avenue in Stanislaus County;
10. Meander centerline of said Highline Canal southwest to its intersection with the drainage divide between Turlock Irrigation District Cross Ditch Number 1 and Turlock Irrigation District Cross Ditch Number 2 approximately 0.33 miles southwest of the intersection of Santa Fe Drive with the Merced County line;
11. Meander said drainage divide southwesterly to its intersection with the centerline of Turlock Irrigation District Lateral Number 6 at the junction of the centerlines of Turlock Main Canal, Turlock Irrigation District Lateral Number 5 (Harding Drain), and said Lateral No. 6;
12. Meander centerline of said Lateral No. 6 southwesterly to its junction with the centerline of Turlock Irrigation District Lateral Number 7;
13. Meander centerline of said Lateral No. 7 southwesterly to its junction with the centerline of Stevinson Lower Lateral;
14. Meander centerline of said Stevinson Lower Lateral southwesterly to its intersection with the centerline of an unnamed aqueduct approximately one quarter of one mile west of the intersection of Tegner Road and Taylor Avenue in Merced County;
15. Westerly on the centerline of said aqueduct to its junction with the centerline of the Merced River at its apparent point of discharge;
16. Meander centerline of the Merced River to its junction with the centerline of an unnamed canal pumped from the river less than one fifth of a mile downstream of the discharge point of the unnamed aqueduct;
17. Northwest on centerline of said unnamed canal to its intersection with the centerline of an unnamed unpaved road parallel to the Merced River, which begins nearly at the pump on the river;
18. Meander the centerline of said road westerly to its junction with the centerline of Kelley Road;
19. South on the centerline of Kelley Road to its intersection with the centerline of Hills Ferry/River Road;
20. West on centerline of said Hills Ferry Road to its intersection with the centerline of the San Joaquin River;
21. Meander centerline of said San Joaquin River northwesterly to its intersection with the centerline of West Main Street and the point of beginning of this description.

Grassland Subarea

BEGINNING at the junction of the Newman Wasteway and the San Joaquin River lying in Section 10, Township 7 South, Range 9 East, Mount Diablo Meridian; thence along the following courses:

1. Meander the centerline of the San Joaquin River southeasterly upstream to its junction with the jurisdictional boundary of Columbia Canal Company;
2. West and south on the jurisdictional boundary of Columbia Canal Company to its intersection with the San Joaquin River;
3. Meander said centerline of the San Joaquin River easterly to its intersection with the center point of the Mendota Pool;
4. Meander the centerline of the Fresno Slough channel southerly to its intersection with the centerline of the Firebaugh Canal Water District Main Lift;
5. West southwest on the centerline of said Main Lift to its intersection with the centerline of the Firebaugh Canal Water District Third Lift Canal;
6. Northwesterly and westerly on the boundary of Westlands Water District, as defined by said district, to its intersection with the southern drainage boundary of Capita

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Canyon;

7. Meander on said drainage boundary of Capita Canyon southwesterly to its intersection with the southern drainage boundary of Moreno Gulch;
8. Meander on said drainage boundary of Moreno Gulch westerly to its intersection with southern drainage boundary of Little Panoche Creek;
9. Meander on said drainage boundary of Little Panoche Creek northwesterly to its intersection with the county line between Fresno and San Benito counties where the county line crosses the southern boundary of Section 31, Township 14 South, Range 11 East, Mount Diablo Meridian;
10. Northwesterly on the San Benito County line to its intersection with the crest of the Coast Range;
11. Meander on the crest of the Coast Range north-northwesterly to its intersection with the peak of Mustang Peak, where the drainage divide between Orestimba Creek and Garzas Creek diverges from crest of the Coast Range;
12. Meander on said drainage boundary of Garzas Creek westerly to point where the drainage of Garzas Creek and Bennett Valley diverge;
13. Meander said southern boundary of Bennett Valley and associated watersheds to its intersection with the centerline of Eastin Road in Merced County;
14. North on centerline of said Eastin Road to its intersection with the centerline of the first and southern-most of the associated creeks of Bennett Valley, just south of its junction with Moorehead Road;
15. Meander centerline of said creek northeasterly to its intersection with the centerline of Central California Irrigation District's Main Canal;
16. Meander centerline of said Main Canal northwesterly to its intersection with the centerline of the Newman Wasteway;
17. East on centerline of said Newman Wasteway to its junction with the centerline of the San Joaquin River and the point of beginning of this description.

Merced River Subarea

BEGINNING at the intersection of the centerline of the Merced River and the centerline of River Road lying in Section 3, Township 7 South, Range 9 East, Mount Diablo Meridian; thence along the following courses:

1. West on centerline of said River Road to its intersection with the centerline of Kelley Road;
2. North on centerline of said Kelley Road to its intersection with the centerline of an unnamed, unpaved road approximately 4000 feet north of the intersection of Kelley Road and River Road;
3. Meander centerline of said unnamed road to its intersection with the centerline of an unnamed lateral pumped from the Merced River;
4. Southeast on the centerline of said unnamed lateral to its intersection with the centerline of the Merced River;
5. Meander centerline of the Merced River to the discharge point of an unnamed aqueduct located less than one fifth of a mile upstream of the pump on said unnamed lateral;
6. Easterly on centerline of said aqueduct to its intersection with the centerline of Stevinson Lower Lateral;
7. Meander centerline of said Stevinson Lower Lateral northwesterly to its junction with the centerline of Turlock Irrigation District Lateral Number 7;
8. Meander centerline of said Lateral No. 7 northeasterly to its junction with the centerline of Turlock Irrigation District Lateral Number 6;
9. Meander centerline of said Lateral No. 6 northeasterly to its intersection with the drainage divide between Turlock Irrigation District Cross Ditch Number 1 and Turlock Irrigation District Cross Ditch Number 2 at the junction of the centerlines of Turlock Main Canal, Turlock Irrigation District Lateral Number 5 (Harding Drain), and said Lateral No. 6;
10. Meander said drainage northeasterly to its intersection with the centerline of Highline Canal approximately 0.33 miles southwest of the intersection of Santa Fe Drive with the Merced County line;

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11. Meander centerline of said Highline Canal north to its junction with the centerline of Turlock Main Canal;
12. Meander drainage boundary of unnamed creeks draining easterly toward Highline Canal and to the Merced River via said canal southeasterly to its intersection with the drainage boundary of Sand Creek;
13. Meander said drainage boundary of Sand Creek southwesterly to its intersection with the centerline of Highline Canal approximately 2000 feet upstream of the intersection with Keyes Road;
14. Meander centerline of said Highline Canal southerly to its intersection with the southern drainage boundary of Sand Creek, approximately one half mile southeast of the intersection of Hickman Road and Monte Vista Avenue in Stanislaus County;
15. Meander said drainage boundary of Sand Creek easterly to its junction with the unnamed interior drainage basin west of Turlock Lake;
16. Meander said interior drainage basin northeasterly to its junction with the southern drainage boundary of Turlock Lake;
17. Meander said drainage boundary of Turlock Lake northeasterly to its junction with the southern drainage boundary of Peaslee Creek;
18. Meander said drainage boundary of Peaslee Creek northeasterly to its junction with the southern drainage boundary of Evans Creek;
19. Meander said drainage boundary of Evans Creek northeasterly to its junction with the southern drainage boundary of Vizard Creek;
20. Meander said drainage boundary of Vizard Creek easterly to its intersection with the Stanislaus County line, near the four-corner intersection of Stanislaus, Tuolumne, Merced, and Mariposa counties;
21. Southeast on said Stanislaus County line to its intersection with the Merced County line;
22. Southeasterly on the Merced County line to its intersection with the drainage boundary between Merced River and Burns Creek;
23. Meander said drainage boundary of Burns Creek southwesterly to its junction with the drainage boundary of Black Rascal Creek;
24. Meander said drainage boundary of Black Rascal Creek northwesterly to its junction with the drainage boundary of Stoney Creek;
25. Meander said drainage boundary of Stoney Creek northerly to its intersection with the centerline of the Merced River;
26. Meander centerline of said Merced River westerly to its junction with the centerline of the Merced Irrigation District Main Canal;
27. Meander centerline of said Main Canal southwesterly, excluding any creeks or canals flowing into it, to its intersection with the southern drainage boundary of Edendale Creek;
28. Meander said drainage boundary of Edendale Creek southwesterly to its junction with the drainage boundary of Canal Creek;
29. Meander said drainage boundary of Canal Creek southerly to its intersection with the centerline of Bellevue Road near Castle Airport in Merced County;
30. West on centerline of said Bellevue road to its intersection with the centerline of Canal Creek, were it extended to intersect said creek;
31. Southerly on the centerline of said Canal Creek to the point of divergence between Canal Creek and Livingston Canal;
32. Meander centerline of said Livingston Canal westerly to its junction with a small, unnamed creek south of Castle Gardens, approximately 1000 feet downstream of Buhach Road in Merced County;
33. Meander centerline of said unnamed creek southerly to its intersection with northern boundary of Section 7, Township 7 South, Range 13 East, Mount Diablo Meridian;
34. West on said section boundary to its intersection with the centerline of Sierra Madre Drive in the City of Atwater in Merced County, were it extended to intersect said section;

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35. North on centerline of said Sierra Madre Drive to its junction with the centerline of Juniper Avenue in the City of Atwater in Merced County;
36. West on centerline of said Juniper Avenue to its junction with the centerline of Shaffer Road in the City of Atwater in Merced County;
37. North on centerline of said Shaffer Road to its junction with the centerline of Bellevue Road in the City of Atwater in Merced County;
38. West on centerline of said Bellevue Road to its intersection with the southeast corner of the subdivision boundary near the intersection with Bellevue Road and 5th Street in the City of Atwater in Merced County;
39. North on boundary of said subdivision to its intersection with the centerline Fruitland Avenue in the City of Atwater in Merced County, near its intersection with Chardonnay Way;
40. West on centerline of said Fruitland Avenue to its intersection with the western boundary of the subdivision lying south of said avenue;
41. South on the boundary of said subdivision to its intersection with the centerline of Bellevue Road in the City of Atwater in Merced County, near its intersection with 7th Street;
42. West on centerline of said Bellevue Road to its junction with the centerline of Winton Way in the City of Atwater in Merced County;
43. North on centerline of said Winton Way to its junction with the centerline of Fruitland Avenue in the City of Atwater in Merced County;
44. Meander centerline of said Fruitland Avenue northwesterly to its junction with the centerline of Vine Avenue in Merced County;
45. North on centerline of said Vine Avenue to its intersection with the centerline of the Livingston Canal;
46. Meander centerline of said Livingston Canal northwesterly to its junction with the centerline of Arena Canal;
47. Meander centerline of said Arena Canal southeasterly to the point of divergence between Arena Canal and the Wakefield Lateral on the west side of the intersection between Arena Canal and Cressy Way in Merced County;
48. Meander drainage divide between said Arena Canal and Wakefield Lateral westerly to its intersection with the centerline of the Hammatt Lateral;
49. Meander southern drainage boundary of Garibaldi Lateral southwesterly to its intersection with the centerline of Magnolia Avenue in Merced County;
50. West on centerline of said Magnolia Avenue to its junction with the centerline of Howard Avenue in Merced County;
51. Southwest to the junction of the centerlines of West Side Boulevard and Weir Avenues;
52. West on centerline of said West Side Boulevard to its intersection with the centerline of River Road, were it extended to intersect said road;
53. Southwesterly on centerline of said River Road to point that said road makes a ninety degree bend to the south in Section 4, Township 7 South, Range 14 East, Mount Diablo Meridian;
54. Due West to the intersection with the centerline of the East Side Canal;
55. Meander centerline of said East Side Canal southwesterly to its intersection with the centerline of River Road in Merced County;
56. West on centerline of said River Road to its intersection with the centerline of the Merced River and the point of beginning of this description.

Northwest Side Subarea

BEGINNING at the intersection of the centerline of the San Joaquin River and the centerline of the Airport Way Bridge lying in Section 13, Township 3 South, Range 6 East, Mount Diablo Meridian; thence along the following courses:

1. Southeasterly on centerline of said San Joaquin River to its junction with the centerline of the Newman Wasteway;
2. Southwesterly on centerline of said Newman Wasteway to its intersection with the centerline of Central California Irrigation District's Main Canal;

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3. Southeasterly on centerline of said Main Canal to its junction with the centerline of the discharge point of an unnamed creek approximately 2200 feet downstream of the Newman Wasteway;
4. Southwesterly on centerline of said unnamed creek to its intersection with Eastin Road in Stanislaus County;
5. South on centerline of said Eastin Road to its intersection with the southern drainage boundary of the unnamed creek approximately 500 feet south of said road's junction with Pete Miller Road in Stanislaus County;
6. Meander said southern drainage boundary of unnamed creek southwesterly to its junction with the drainage boundary of Garzas Creek;
7. Meander said drainage boundary of Garzas Creek to its intersection with Mustang Peak, at which point the drainage boundary and Garzas Creek becomes the crest of the Coast Range;
8. Meander said crest of the Coast Range northwesterly to its intersection with the drainage boundary of Hospital Creek;
9. Meander said drainage boundary of Hospital Creek northerly to its intersection with the drainage boundary of Lone Tree Creek;
10. Meander drainage boundary of Lone Tree Creek northeasterly, excluding Lone Tree Creek, to its intersection with the centerline of Bird Road in San Joaquin County;
11. North on centerline of said Bird Road to its intersection with the centerline of Lone Tree Creek;
12. Northerly on the centerline of Lone Tree Creek to its intersection with the centerline of Vernalis Road in San Joaquin County;
13. East on centerline of said Vernalis Road to its intersection with a known underground gas pipeline approximately 2700 feet east of Koster Avenue;
14. Northeast on said gas pipeline to its intersection with the centerline of Durham Ferry Road in San Joaquin County;
15. Northeast on said centerline of Durham Ferry Road to its intersection with the centerline of the San Joaquin River at the Airport Way Bridge and the point of beginning of this description.

Greater Orestimba Minor Subarea

BEGINNING at the centerline of the San Joaquin River at the intersection with the centerline of the Las Palmas Avenue Bridge lying in Section 15, Township 05 South, Range 08 East, Mount Diablo Meridian; thence along the following courses:

1. Southeasterly on centerline of said San Joaquin River to its junction with the centerline of the Newman Wasteway;
2. Southwesterly on centerline of said Newman Wasteway to its intersection with the centerline of Central California Irrigation District's Main Canal;
3. Southeasterly on centerline of said Main Canal to its junction with the centerline of the discharge point of an unnamed creek approximately 2200 feet downstream of the Newman Wasteway;
4. Southwesterly on centerline of said unnamed creek to its intersection with Eastin Road in Merced County;
5. South on centerline of said Eastin Road to its intersection with the southern drainage boundary of the unnamed creek approximately 500 feet south of said road's junction with Pete Miller Road in Merced County;
6. Meander said southern drainage boundary of unnamed creek southwesterly to its junction with the drainage boundary of Garzas Creek;
7. Meander said drainage boundary of Garzas Creek to its intersection with Mustang Peak, the point at which said drainage of Garzas Creek intersects the crest of the Coast Range;
8. Meander said crest of the Coast Range northwesterly to its intersection with the northern drainage boundary of Orestimba Creek;
9. Meander said drainage boundary of Orestimba Creek easterly to its intersection with the drainage boundary of Little Salado Creek near Oaks Flat Ranch;

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10. Meander said drainage boundary of Little Salado Creek northeasterly to its intersection with the centerline of Elfers Road at its intersection with the centerline of Del Puerto Avenue in Stanislaus County near Patterson;
11. East on centerline of said Elfers Road to its intersection with the centerline of Highway 33;
12. Northwest on centerline of said Highway 33 to its intersection with the centerline of Patterson Main Canal;
13. Northeast on centerline of said Patterson Main Canal to its intersection with the centerline of Las Palmas Avenue in Stanislaus County;
14. Northeast on centerline of said Las Palmas Avenue to its intersection with the centerline of the San Joaquin River and the point of beginning of this description.

Vernalis North Minor Subarea

BEGINNING at the intersection of the centerline of the San Joaquin River and the centerline of the Airport Way Bridge lying in Section 13, Township 3 South, Range 6 East, Mount Diablo Meridian; thence along the following courses:

1. Southeasterly on centerline of said San Joaquin River to its intersection with the centerline of an unnamed, unpaved road approximately 250 feet south of Maze Boulevard in Stanislaus County, north of the El Solyo Lift, were said unnamed, unpaved road extended to intersect the centerline of the San Joaquin River;
2. Southwest on centerline of said unnamed, unpaved road to its junction with the centerline of McCracken Road in Stanislaus County near Vernalis;
3. South on centerline of said McCracken Road to its junction with the centerline of Blewett Road in San Joaquin County;
4. West on centerline of said Blewett Road to its intersection with the centerline of Lone Tree Creek;
5. Northerly on the centerline of Lone Tree Creek to its intersection with the centerline of Vernalis Road in San Joaquin County;
6. East on centerline of said Vernalis Road to its intersection with a known underground gas pipeline approximately 2700 feet east of Koster Avenue;
7. Northeast on said gas pipeline to its intersection with the centerline of Durham Ferry Road in San Joaquin County;
8. Northeast on said centerline of Durham Ferry Road to its intersection with the centerline of the San Joaquin River at the Airport Way Bridge and the point of beginning of this description.

Westside Creeks Minor Subarea

BEGINNING at the centerline of the San Joaquin River at the Maze Boulevard Bridge lying in Section 29, Township 3 South, Range 7 East, Mount Diablo Meridian; thence along the following courses:

1. Meander centerline of said San Joaquin River southeasterly to its intersection with the centerline of Las Palmas Avenue in Stanislaus County near Patterson;
2. Southwesterly on centerline of said Las Palmas Avenue to its intersection with the centerline of the Patterson Main Canal;
3. Southwesterly on centerline of said Patterson Main Canal to its intersection with the centerline of Highway 33 in Stanislaus County near Patterson;
4. Southeast on centerline of said Highway 33 to its intersection with the centerline of Elfers Road;
5. West on centerline of said Elfers Road to its intersection with the centerline of Del Puerto Avenue;
6. Meander the drainage boundary of Little Salado Creek southwesterly to its intersection with drainage boundary of Orestimba Creek;
7. Meander said drainage boundary of Orestimba Creek southwesterly to its intersection with intersects the hydrologic divide of the San Joaquin River basin in the Coast Range, heretofore referred to as the crest of the Coast Range;
8. Meander said crest of the Coast Range northwesterly to its intersection with the northern drainage boundary of Hospital Creek;
9. Meander said drainage boundary of Hospital Creek northerly to its intersection with the drainage boundary of Lone Tree Creek;

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10. Meander drainage boundary of Lone Tree Creek northwesterly to its intersection with the centerline of Blewett Road in San Joaquin County;
11. East on centerline of said Blewett Road to its junction with the centerline of McCracken Road in Stanislaus County near Vernalis;
12. North on McCracken Road to its junction with an unnamed, unpaved road approximately 1000 feet north of said Blewett Road;
13. Northeasterly on said unnamed, unpaved road to its intersection with the centerline of the San Joaquin River, were it extended to intersect said river;
14. Northerly on said San Joaquin River to its intersection with the centerline of Maze Boulevard in Stanislaus County and the point of beginning of this description;

San Joaquin River Upstream of Salt Slough Subarea

BEGINNING at the centerline of the San Joaquin River at its intersection with the centerline of Lander Avenue (Highway 165) in Merced County lying in Section 27, Township 07 South, Range 10 East, Mount Diablo Meridian; thence along the following courses:

1. Northeasterly on the drainage boundary of the San Joaquin River upstream of its intersection with Lander Avenue (Highway 165) to its intersection with the centerline of the East Side Irrigation Canal near said canal's junction with Howard Lateral;
2. Meander the drainage boundary of Bear Creek northeasterly to its intersection with centerline of Arena Canal at its junction with Hammatt Lateral near Livingston;
3. Meander to drainage divide between Arena Canal and Wakefield Lateral easterly to its intersection with the centerline of Arena Canal at the point of divergence between said canal and lateral near the intersection of Arena Canal and Cressy Way in Merced County;
4. Meander centerline of Arena Canal northwesterly to its junction with the centerline of Livingston Canal;
5. Meander centerline of Livingston Canal southeasterly to its intersection with the centerline of Vine Avenue in Merced County near Atwater;
6. South on centerline of said Vine Avenue to its junction with the centerline of Fruitland Avenue in the City of Atwater in Merced County;
7. Meander centerline of Fruitland Avenue southeasterly to its intersection with the centerline of Winton Way in the City of Atwater in Merced County;
8. South on centerline of said Winton Way to its junction with the centerline of Bellevue Road in the City of Atwater in Merced County;
9. East on centerline of said Bellevue Road to its intersection with the southwest corner of a subdivision near said road's intersection with 7th Street in the City of Atwater in Merced County;
10. North on the boundary of said subdivision to its intersection with the centerline of Fruitland Avenue in the City of Atwater in Merced County;
11. East on centerline of said Fruitland Avenue to its intersection with the eastern boundary of the subdivision lying south of said avenue, near the intersection with Chardonay Way;
12. South on boundary of said subdivision to its intersection with the centerline of Bellevue Road in the City of Atwater in Merced County, near said road's intersection with 5th Street;
13. East on centerline of said Bellevue Road to its junction with the centerline of Shaffer Road in the City of Atwater in Merced County;
14. South on the centerline of said Shaffer Road to its junction with the centerline of Juniper Avenue in the City of Atwater in Merced County;
15. East on the centerline of said Juniper Avenue to its junction with the centerline of Sierra Madre Drive in the City of Atwater in Merced County;
16. South on the centerline of said Sierra Madre Drive to its intersection with the northern boundary of Section 7, Township 7 South, Range 13 East, Mount Diablo Meridian;
17. East on said section boundary to its intersection with the centerline of an unnamed creek about 750 feet before said section boundary intersects Buhach Road;
18. Meander centerline of said unnamed creek northerly to its junction with the centerline of the Livingston Canal;

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19. Meander centerline of said Livingston Canal easterly to the point of divergence between Canal Creek and said canal;
20. Northerly on centerline of said Canal Creek to its intersection with the centerline of Bellevue Road in Merced County near Castle Airport;
21. East on centerline of said Bellevue Road to its intersection with the drainage boundary of Canal Creek near the intersection of Franklin Road and Bellevue Road in Merced County near Castle Airport;
22. Meander said drainage boundary of Canal Creek northerly to its junction with the drainage boundary of Edendale Creek;
23. Meander said drainage boundary of Edendale Creek northeasterly to its intersection with the centerline of Merced Irrigation District's Main Canal;
24. Meander centerline of said Main Canal northeasterly to its junction with the centerline of the Merced River, including any creeks and canals flowing into it along that length;
25. Meander centerline of said Merced River easterly to its intersection with the drainage boundary of Stoney Creek;
26. Meander said drainage boundary of Stoney Creek southerly to its junction with the drainage boundary of Black Rascal Creek;
27. Meander said drainage boundary of Black Rascal Creek southeasterly to its junction with the drainage boundary of Burns Creek;
28. Meander said drainage boundary of Burns Creek northeasterly to its intersection with the Merced County line;
29. Southeasterly on said Merced County line to its junction with Madera County line and Calwater 654530000 (Berenda Creek Hydrologic Area);
30. Southeasterly on the boundary of Calwater 654530000 (Berenda Creek Hydrologic Area) to its intersection with the centerline of the San Joaquin River at Friant Dam;
31. Southwesterly on centerline of said San Joaquin River to its intersection with the jurisdictional boundary of Columbia Canal Company;
32. Northwesterly on said boundary of Columbia Canal Company to its intersection with the centerline of the San Joaquin River;
33. Northwesterly on said San Joaquin River to its intersection with the centerline of Lander Avenue (Highway 165) and the point of beginning of this description.

Bear Creek Minor Subarea

BEGINNING at the centerline of the San Joaquin River at its intersection with the centerline of Lander Avenue (Highway 165) in Merced County lying in Section 27, Township 07 South, Range 10 East, Mount Diablo Meridian; thence along the following courses:

1. Northeasterly on the drainage boundary of the San Joaquin River upstream of its intersection with Lander Avenue (Highway 165) to its intersection with the centerline of the East Side Irrigation Canal near said canal's junction with Howard Lateral;
2. Meander the drainage boundary of Bear Creek northeasterly to its intersection with centerline of Arena Canal at its junction with Hammatt Lateral near Livingston;
3. Meander to drainage divide between Arena Canal and Wakefield Lateral easterly to its intersection with the centerline of Arena Canal at the point of divergence between said canal and lateral near the intersection of Arena Canal and Cressy Way in Merced County;
4. Meander centerline of Arena Canal northwesterly to its junction with the centerline of Livingston Canal;
5. Meander centerline of Livingston Canal southeasterly to its intersection with the centerline of Vine Avenue in Merced County near Atwater;
6. South on centerline of said Vine Avenue to its junction with the centerline of Fruitland Avenue in the City of Atwater in Merced County;
7. Meander centerline of Fruitland Avenue southeasterly to its intersection with the centerline of Winton Way in the City of Atwater in Merced County;
8. South on centerline of said Winton Way to its junction with the centerline of Bellevue Road in the City of Atwater in Merced County;
9. East on centerline of said Bellevue Road to its intersection with the southwest corner of a subdivision near said road's intersection with 7th Street in the City of Atwater

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in Merced County;

10. North on the boundary of said subdivision to its intersection with the centerline of Fruitland Avenue in the City of Atwater in Merced County;

11. East on centerline of said Fruitland Avenue to its intersection with the eastern boundary of the subdivision lying south of said avenue, near the intersection with Chardonnay Way;

12. South on boundary of said subdivision to its intersection with the centerline of Bellevue Road in the City of Atwater in Merced County, near said road's intersection with 5th Street;

13. East on centerline of said Bellevue Road to its junction with the centerline of Shaffer Road in the City of Atwater in Merced County;

14. South on the centerline of said Shaffer Road to its junction with the centerline of Juniper Avenue in the City of Atwater in Merced County;

15. East on the centerline of said Juniper Avenue to its junction with the centerline of Sierra Madre Drive in the City of Atwater in Merced County;

16. South on the centerline of said Sierra Madre Drive to its intersection with the northern boundary of Section 7, Township 7 South, Range 13 East, Mount Diablo Meridian;

17. East on said section boundary to its intersection with the centerline of an unnamed creek about 750 feet before said section boundary intersects Buhach Road;

18. Meander centerline of said unnamed creek northerly to its junction with the centerline of the Livingston Canal;

19. Meander centerline of said Livingston Canal easterly to the point of divergence between Canal Creek and said canal;

20. Northerly on centerline of said Canal Creek to its intersection with the centerline of Bellevue Road in Merced County near Castle Airport;

21. East on centerline of said Bellevue Road to its intersection with the drainage boundary of Canal Creek near the intersection of Franklin Road and Bellevue Road in Merced County near Castle Airport;

22. Meander said drainage boundary of Canal Creek northerly to its junction with the drainage boundary of Edendale Creek;

23. Meander said drainage boundary of Edendale Creek northeasterly to its intersection with the centerline of Merced Irrigation District's Main Canal;

24. Meander centerline of said Main Canal northeasterly to its junction with the centerline of the Merced River, including any creeks and canals flowing into it along that length;

25. Meander centerline of said Merced River easterly to its intersection with the drainage boundary of Stoney Creek;

26. Meander said drainage boundary of Stoney Creek southerly to its junction with the drainage boundary of Black Rascal Creek;

27. Meander said drainage boundary of Black Rascal Creek southeasterly to its junction with the drainage boundary of Burns Creek;

28. Meander said drainage boundary of Burns Creek northeasterly to its intersection with the Merced County line;

29. Meander said Merced County line southeasterly to its intersection with the northern drainage boundary of the Chowchilla River;

30. Westerly on said drainage boundary of Chowchilla River to its intersection with the centerline of Marguerite Road;

31. West on centerline of said Marguerite Road to its intersection with the jurisdictional boundary of Chowchilla Water District, as defined by said water district, were said road extended to intersect Chowchilla Water District jurisdictional boundary;

32. Meander said Chowchilla Water District jurisdictional boundary to its intersection with the jurisdictional boundary of El Nido Irrigation District (now operated by Merced Irrigation District) as it existed at the time it changed hands;

33. Meander said jurisdictional boundary of El Nido Irrigation District to its intersection with the centerline of Vineyard Road in Merced County near El Nido;

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34. South on centerline of said Vineyard Road to its intersection with the centerline of West Washington Road, were both roads extended such that they would make an intersection;

35. West on centerline of said West Washington Road to its intersection with the centerline of the San Joaquin River at the bridge where Indiana Road intersects from the opposite direction;

36. Northwesterly on centerline of said San Joaquin River to its intersection with the centerline of Lander Avenue (Highway 165) and the point of beginning of this description.

Fresno-Chowchilla Minor Subarea

BEGINNING at the centerline of the San Joaquin River at its intersection the centerline of West Washington Road in Merced County lying in Section 31, Township 9 South, Range 13 East, Mount Diablo Meridian; thence along the following courses:

1. West on centerline of said West Washington Road to its intersection with the jurisdictional boundary of El Nido Irrigation District (now operated by Merced Irrigation District) as it existed at the time it changed hands;

2. Meander said jurisdictional boundary of El Nido Irrigation District to its intersection with the jurisdictional boundary of Chowchilla Water District, as defined by said water district;

3. Meander said jurisdictional boundary of Chowchilla Water District to its intersection with the centerline of Harvey Petit Road in Merced County near Le Grande;

4. East on centerline of said Harvey Petit Road to its intersection with the northern drainage boundary of the Chowchilla River, were said road extended to intersect the drainage boundary of the Chowchilla River;

5. Meander said drainage boundary of the Chowchilla River northeasterly to its intersection with the Merced County line;

6. Meander Merced County line southeasterly to its intersection with the Madera County line;

7. Southeasterly on the boundary of Calwater 654530000 (Berenda Creek Hydrologic Area) to its intersection with the centerline of the San Joaquin River at Friant Dam;

8. Southwesterly on centerline of said San Joaquin River to its intersection with the jurisdictional boundary of Columbia Canal Company;

9. Northwesterly on said boundary of Columbia Canal Company to its intersection with the centerline of the San Joaquin River;

10. Northwesterly on said San Joaquin River to its intersection with the land boundary south of the confluence with Mariposa Slough in Merced County that denotes the beginning of agricultural production south of said confluence with Mariposa Slough, were the land boundary extended to said centerline of the San Joaquin River, and the point of beginning of this description.

Stanislaus River Subarea

BEGINNING at the centerline of the parking slip of Campsite number 24 in Caswell Memorial State Park lying in Section 02, Township 03 South, Range 07 East, Mount Diablo Meridian, at its intersection with the centerline of the Stanislaus River, were the centerline of said parking slip extended to intersect the Stanislaus River; thence along the following courses:

1. Southwesterly on centerline of said parking slip to its intersection with the centerline of the main road connecting the campsites with the park entrance, were the centerline of said parking slip extended to said main road;

2. Westerly on centerline of said main park road to its intersection with the centerline of the north levee of the Stanislaus River, were the centerline of said main park road extended to intersect the centerline of the levee;

3. Meander centerline of said Stanislaus River levee northeasterly to its intersection with the centerline of Mohler Road at the point where said road bends west to become Moncure Road in San Joaquin County near Ripon, were the centerline of Mohler Road extended to intersect the centerline of said levee;

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4. North on centerline of said Mohler Road to its intersection with the centerline of an unnamed canal underground a short distance south of the location at which Mohler Road bends to the east toward Ripon;
5. Meander centerline of said unnamed canal northerly to its junction with an unnamed canal approximately one quarter mile south of the intersection of Highland Avenue and Kamps Way in the City of Ripon in San Joaquin County;
6. Meander centerline of said unnamed canal northeasterly to its junction with the centerline of South San Joaquin Main District Canal;
7. Meander centerline of said Main District Canal northeasterly to its intersection with the centerline of Campbell Lateral;
8. Meander centerline of said Campbell Lateral southeasterly to its junction with the centerline of Tulloch Lateral;
9. Meander centerline of said Tulloch Lateral easterly to its intersection with the drainage boundary of Lone Tree Creek, approximately 3500 feet upstream of said lateral's intersection with Valley Home Road in Stanislaus County near Oakdale;
10. Meander said drainage boundary of Lone Tree Creek northeasterly to its intersection with the centerline of Twentysix Mile Road in Stanislaus County near Oakdale, approximately one half mile north of said road's intersection with Tulloch Lateral;
11. North on said Twentysix Mile Road to its intersection with the centerline of Young Lateral;
12. Easterly on centerline of said Young Lateral to its junction with the centerline of the Cometa Lateral;
13. Southerly on centerline of said Cometa Lateral to its intersection with the drainage boundary of an unnamed watershed north of this location approximately one quarter mile downstream of said lateral's intersection with Frankenheimer Road in Stanislaus County near the Woodward Reservoir;
14. Meander said drainage boundary of unnamed watershed northerly to its junction with the northern drainage boundary of the Cometa Lateral;
15. Meander said drainage boundary of Cometa Lateral northwesterly to its intersection with the centerline of Cometa Lateral approximately 1000 feet upstream of said lateral's intersection with Dodd Road in Stanislaus County near the Woodward Reservoir;
16. Northerly on centerline of said Cometa Lateral to its intersection with the South San Joaquin Water District's Main District Canal;
17. Meander centerline of said Main District Canal northeasterly to its junction with Woodward Reservoir;
18. Meander natural drainage boundary between Woodward Reservoir and Littlejohn's Creek easterly to its intersection with the centerline of Oakdale Irrigation District's North Main Canal, excluding Simmons Creek at the intersection of said North Main Canal and South San Joaquin Water District's Main District Canal;
19. Meander centerline of said North Main Canal easterly to its intersection with Little John's Dam;
20. Meander drainage boundary of Little John's Creek and its tributaries northeasterly to its intersection with the Stanislaus County line;
21. Southeast on said Stanislaus County line to its intersection with the southern drainage boundary of Wildcat Creek;
22. Meander said drainage boundary of Wildcat Creek southwesterly to its junction with the drainage boundary of Cashman Creek;
23. Meander said drainage boundary of Cashman Creek upstream of Cashman Dam southwesterly to its intersection with the centerline of Oakdale South Main Canal;
24. Meander centerline of said Oakdale South Main Canal southwesterly to its intersection with Sierra Railroad near Arnold Hill, approximately 1.25 miles northwest of said railroad's intersection with Fogarty Road in Stanislaus County;
25. Meander drainage boundary east of said Main Canal southeasterly to its intersection with the drainage boundary of Kearney Lateral;
26. Meander said drainage boundary of Kearney Lateral to its intersection with the centerline of Oakdale South Main Canal;
27. Meander centerline of said Oakdale South Main Canal westerly to its junction with the centerline of Claribel Lateral;
28. South on centerline of said Claribel Lateral to its junction with the centerline of Albers Lateral;

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29. Meander centerline of said Albers Lateral southwesterly to its junction with the centerline of Stowell Lateral;
30. Meander centerline of said Stowell Lateral southwesterly to its junction with the centerline of Thompson Lateral;
31. Meander centerline of said Thompson Lateral southerly to its junction with the centerline of Modesto Irrigation District's Main Canal;
32. Meander centerline of said Modesto Main Canal northwesterly to its junction with the centerline of Modesto Irrigation District Lateral Number 6;
33. Meander centerline of said Lateral No. 6 westerly to its intersection with the centerline of the south bank levee of the Stanislaus River;
34. Meander said south bank levee westerly to its intersection with the crest of the ridge bordering the Stanislaus River on the peninsula opposite Caswell Memorial State Park;
35. Northwest on said crest to its intersection with a line due east from the intersection of the extension of the centerline of the slip of Campsite number 24 with the centerline of the Stanislaus River;
36. West on said line to its intersection with the centerline of the Stanislaus River and the point of beginning of this description.

Tuolumne River Subarea

BEGINNING at the intersection of the centerline of the Tuolumne River and the centerline of Shiloh Road in Stanislaus County lying in Section 7, Township 04 South, Range 08 East, Mount Diablo Meridian; thence along the following courses:

1. North on centerline of said Shiloh Road to its intersection with the centerline of Paradise Road in Stanislaus County near Grayson;
2. East on centerline of said Paradise Road to its intersection with the centerline of Hart Road in Stanislaus County near Modesto;
3. North on centerline of said Hart Road to its intersection with the centerline of Modesto Irrigation District Lateral Number 5;
4. Meander centerline of said Lateral No. 5 northeasterly to its intersection with the centerline of Locust Avenue in Stanislaus County, were it extended west to intersect the centerline of said Lateral No. 5;
5. East on centerline of said Locust Avenue to its intersection with the centerline of Franklin Street;
6. North on centerline of said Franklin Street to its intersection with the boundary of the Ninth Street Stormdrain Basin, as defined by the City of Modesto in Modesto;
7. Meander boundary of said Ninth Street Stormdrain Basin to its intersection with the boundary of the McHenry Avenue Stormdrain Basin, as defined by the City of Modesto, in Modesto;
8. Meander boundary of said McHenry Avenue Stormdrain Basin to its intersection with the centerline of Modesto Irrigation District Lateral Number 4;
9. Meander centerline of said Lateral No. 4 northeast to its junction with the centerline of Modesto Irrigation District Lateral Number 3;
10. Meander centerline of said Lateral No. 3 to its junction with the centerline of Modesto Irrigation District Main Canal;
11. Meander centerline of said Main Canal southeasterly to its intersection with the centerline of Dry Creek;
12. Meander centerline of Dry Creek easterly to its junction with the centerline of Claribel Lateral;
13. Meander centerline of said Claribel Lateral northerly to its junction with the centerline of Oakdale South Main Canal;
14. Meander centerline of said Oakdale South Main Canal easterly to its intersection with the centerline of Kearney Lateral;
15. Meander drainage boundary of Kearney Lateral southeasterly to the point of divergence of the Kearney Lateral drainage boundary and the Oakdale South Main Canal;
16. Meander said drainage boundary of Oakdale South Main Canal downstream of its intersection with Sierra Railroad northeasterly to its intersection with the centerline

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of Oakdale South Main Canal at its intersection with the centerline of Sierra Railroad approximately one and one quarter mile northwest of said railroad's intersection with Fogarty Road in Stanislaus County near Oakdale;

17. Meander said Main Canal northeasterly to its intersection with Cashman Dam;
18. Meander drainage boundary of Cashman Creek upstream of Cashman Dam southeasterly to its intersection with the drainage boundary of Wildcat Creek;
19. Meander said drainage boundary of Wildcat Creek northeasterly to its intersection with the Stanislaus County line;
20. Southeast on said Stanislaus County line to its intersection with the drainage boundary of Vizard Creek;
21. Meander said drainage boundary of Vizard Creek southwesterly to its intersection with the drainage boundary of Goodwin Creek;
22. Meander said drainage boundary of Goodwin Creek southwesterly to its intersection with the drainage boundary of Evans Creek;
23. Meander said drainage boundary of Evans Creek southwesterly to its intersection with the drainage boundary of Peaslee Creek;
24. Meander said drainage boundary of Peaslee Creek southwesterly to its intersection with the drainage boundary of Turlock Lake;
25. Meander said drainage of Turlock Lake southwesterly to its intersection with the drainage boundary of an unnamed interior drainage area west of the Turlock Lake drainage basin;
26. Meander said unnamed drainage boundary southwesterly to its intersection with the drainage boundary of Sand Creek;
27. Meander said drainage boundary of Sand Creek northwesterly to its intersection with the drainage boundary of unnamed creeks draining easterly toward Highline Canal and to the Merced River via said canal;
28. Meander said drainage boundary of unnamed creeks to its intersection with the centerline of Turlock Irrigation District Main Canal;
29. Meander centerline of said Turlock Main Canal westerly to its junction with the centerline of Ceres Main Canal;
30. Meander centerline of said Ceres Main Canal westerly to its junction with the centerline of Turlock Irrigation District Lateral Number 1;
31. Meander centerline of said Lateral No. 1 southwesterly to its junction with the centerline of Turlock Irrigation District Lower Lateral Number 2;
32. Meander centerline of said Lateral No. 2 to the point at which said lateral bends from northwest to southwest approximately three quarters of one mile upstream of its intersection with Grayson Road;
33. Meander said drainage boundary of the Tuolumne River to its intersection with the centerline of Shiloh Road in Stanislaus County at the location where Shiloh Road makes a ninety degree turn to the west 1.5 miles south of its intersection with Paradise Road;
34. North on centerline of said Shiloh Road to its intersection with the centerline of the Tuolumne River and the point of beginning of this description.